



# F&J SPECIALTY PRODUCTS, INC.

*The Nucleus of Quality Air Monitoring Programs*

## EMERGENCY RESPONSE AIR SAMPLING SYSTEM DIGITAL FLOW METER TECHNOLOGY F&J MODEL DFCP-ABM50-75L-20Li

### NOTABLE FEATURES:

- State-of-the-Art Electronics
- Operating Modes
  - Line Power (100VAC – 250VAC)
  - On-board 20 Ah LiFe(PO<sub>4</sub>) rechargeable battery
- Lightweight — 20 lbs. (9.1 kg)
- Maximum Flow 75L SLPM Maximum with glass fiber media (98% DOP efficiency)
- Bright LED Display
- Automatic Flow Control Feature
- Flowrate and Volume totalizations displayed are corrected to a factory settable Reference Temperature and Pressure (4 options available)
- Auto shut-off on time or volume
- Brushless 12 VDC motor
- Internal Data Storage Downloadable as (.csv) file
- Data Download via Bluetooth with Optional Bluetooth Dongle for PC Device



**Shown with optional  
filter holder FJ-34**

### NOTABLE FEATURES:

F&J Model DFCP-ABM50-75L-20Li is a military grade lightweight, small footprint, AC/DC voltage powered air sampling system operable from (1) line power, or (2) an on-board 20 Ah LiFe(PO<sub>4</sub>) battery.

The DFCP-ABM50-75L-20Li is well suited for emergency response air sampling activities and where users do not know whether line power will be available. The unit may be operated from the on-board lithium ion battery, solar power, or a wind power source through either the AC input or DC input connectors.

The automatic flow control feature with the F&J Digital Flowmeter technology provides maximum flexibility for emergency response sampling responsibilities. The set flowrate is maintained automatically in case of dust loading and does not require operator attention. The air sampler is contained in a rugged, metal, small dimensioned enclosure which is water tight. The unit can be carried very easily by its metal handle.

Typical flow range is 10 - 75 SLPM (0.35 – 2.7 SCFM). (May vary depending on filter media utilized)

The air sampler is also equipped with internal data storage that allows the user to download the sampling data as a .csv file for easy data analysis.

REV: 18 November 2024

# DFCP-ABM50-75L-20Li AC/DC Powered Air Sampler Specifications

**Pump Type:** High efficiency centrifugal pump

**Motor:** Brushless 12 VDC; 35,000 rpm

**Maximum Flowrate:** 75 LPM typical  
with glass fiber media (98% DOP efficiency)

**Power Source:**  
Line Power; 100VAC to 250VAC  
On-board LiFe(PO<sub>4</sub>) battery (20 Ah/14.8 VDC)

**Current Draw:** 8.0 A maximum on 12VDC  
0.5 to 1.0 A maximum on line power

**Operating Time on Battery:** 4 plus hours

**Filter Holder Fitting:** 1.83—12 U.N.F (Air Sampler)  
1.80—12 U.N.M (Filter Holder)

**Enclosure:** Steel

**Handle:** Durable metal

**Weight:** 20 lbs. (9.1 kg)

**Dimensions:** 13.8"L × 9.5"W × 9"H  
(35.0 × 24.2 × 22.8 cm)

**Operating Temperature Range:**  
14°F to 122°F (-10°C to 50°C)

**Display:** Bright OLED; 4 Line x 32 Characters

**Elapsed Time:** DD:HH:MM up to 168 hours

**Flow Control:**  
Adjustable from keypad between 10-75 LPM

**Flow Accuracy:** ±4.0% of Full Scale

## Factory Settable Reference T and P

Classical STP	0°C, 1 ATM
Normal T and P	20°C, 1 ATM
Modified Normal T and P	70°F, 1 ATM
Standard Ambient T and P	25°C, 1 ATM

## OPTIONS:

- Bluetooth Dongle for PC Device (P/N: BTDG)

## Optional Standard Combination Filter Holders Available:

FILTER HOLDER MODEL	CHARCOAL CARTRIDGE DIMENSIONS	PARTICULATE PAPER DIAMETER
FJ-19	F&J Model C	2" or 50 mm
FJ-27	F&J Model B	2" or 50 mm
FJ-34	F&J Model C	47 mm
FJ-39	F&J Model B	47 mm
FJ-52	F&J Model M	2" or 50 mm
FJ-54	F&J Model M	47 mm

Filter holders for 102 mm and 110 mm are available

Available Engineering Units for Flow and Volume:

SLPM / SL  
SCFM / SCF  
SCMH / SCM

## Digital Flowmeter Keypad/Display

